



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : H04L 12/437		A1	(11) International Publication Number: WO 99/03230
			(43) International Publication Date: 21 January 1999 (21.01.99)
(21) International Application Number: PCT/SE98/01118		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).	
(22) International Filing Date: 10 June 1998 (10.06.98)			
(30) Priority Data: 9702685-0 11 July 1997 (11.07.97) SE			
(71) Applicant (for all designated States except US): TELEFON-AKTIEBOLAGET LM ERICSSON (publ) [SE/SE]; S-126 25 Stockholm (SE).			
(72) Inventors; and (75) Inventors/Applicants (for US only): ASKINGER, Tomas [SE/SE]; Gullbrandsvägen 169, S-145 64 Norsborg (SE). JOHANSSON, Bengt [SE/SE]; Naumannsvägen 19, S-129 38 Hågersten (SE). WOOD, Nigel [GB/GB]; Paynters Wood Farm, Evenley, Brackley, Northants NN13 6SB (GB).		Published With international search report.	
(74) Agent: ERICSSON TELECOM AB; IPR Management & Patent Dept., S-126 25 Stockholm (SE).			

(54) Title: SELF-HEALING RING NETWORK AND A METHOD FOR FAULT DETECTION AND RECTIFYING

(57) Abstract

The present invention relates to a self-healing ring network and a method for fault handling in said network. Said network comprises two communication paths (1, 2) and at least two nodes (N1, N2, N3, N4, N5). A first node (N1) and a second node (N5) suppress transmission to and/or reception from a segment (IS) in the ring, called an inactive segment. In the case of an occurring fault, the inactive segment is moved to the fault. According to the invention the network comprises a separate supervisory channel (OSC) for transmitting information of the fault between the nodes (N1, N2, N3, N4, N5) of the network, in which supervisory channel (OSC) a fault flag (ASSERT_PSS) is provided for the indication of the fault.

